APPLICATION NO. 09/826,118

INVENTION:

INVENTOR:

Wavelet Multi-Resolution Waveforms

Urbain A. von der Embse

DRAWINGS AND PERFORMANCE DATA

APPLICATION NO. 09/826,118

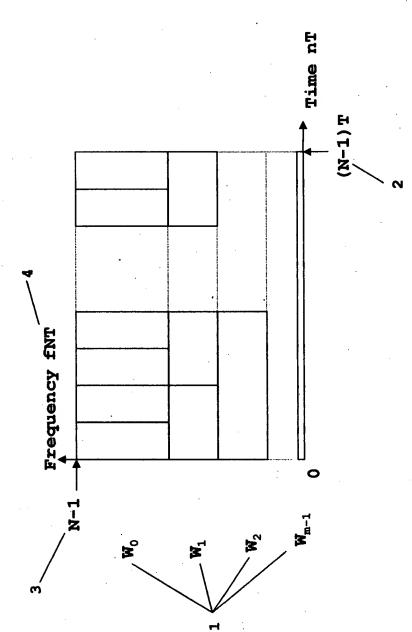
TITLE OF INVENTION: Wavelet Multi-Resolution Waveforms

INVENTOR: Urbain A. von der Embse

Currently amended DRAWINGS AND PERFORMANCE DATA

REPLACEMENT SHEET

Wavelet Tiling of an N-Point Digital t-f Space FIG. 1 Prior Art:



Prior Art: Wavelet Iterated Filter Bank t-f Space in for Tiling FIG.

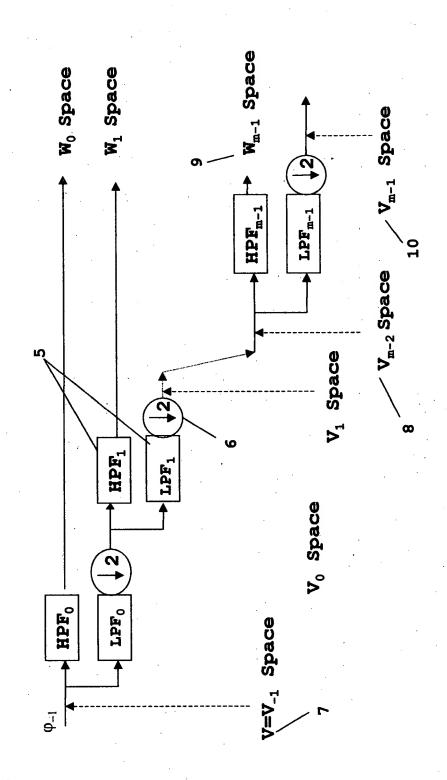
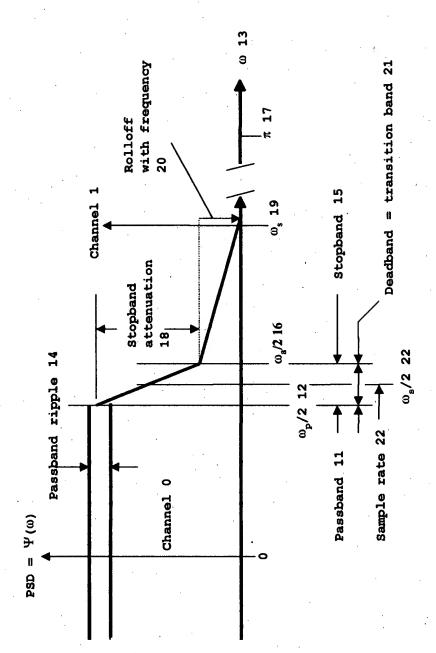
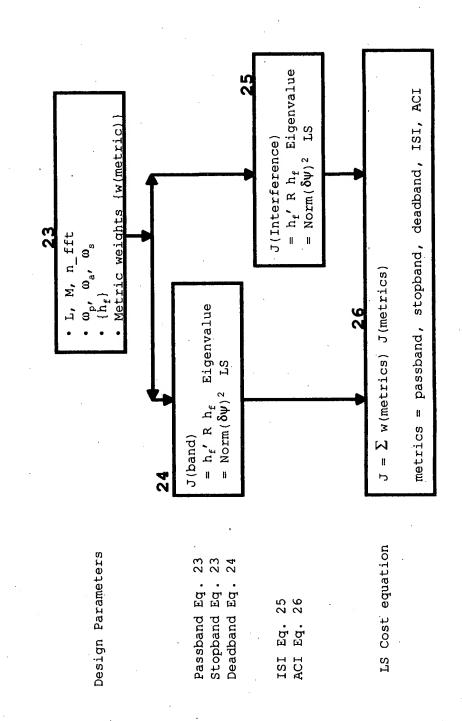


FIG. 3 PSD Requirements for Communications



REPLACEMENT SHEET

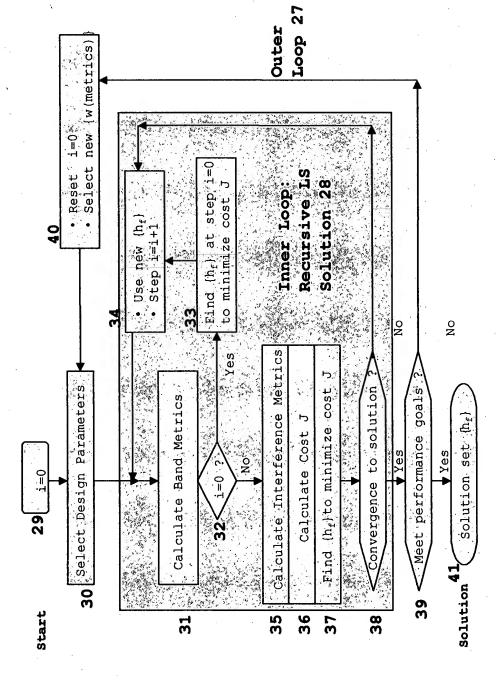
Quadratic and Norm-Squared Error Metrics LS Metrics and Cost Function for FIG.



9

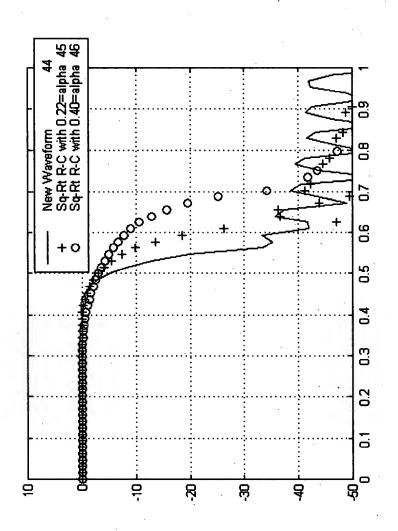
REPLACEMENT SHEET

Quadratic and Norm-Squared Error Metrics FIG. 5 LS Recursive Solution Algorithm for



PSD for New Waveform and Square-Root Raised-Cosine 9 FIG.

45



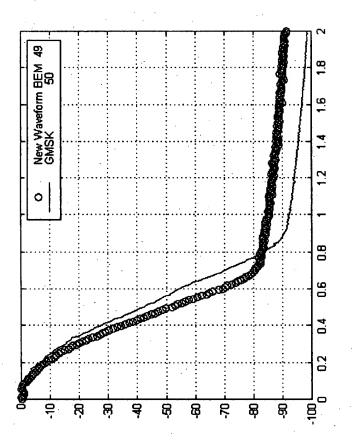
Power spectral density PSD,

Normalized frequency, symbol rate 43

bit rate

Normalized frequency,

FIG. 7 PSD for New Waveform BEM and GMSK



Power spectral density PSD, dB 47

